GRADE STABILIZATION STRUCTURE
(pipe drop with detention storage)

Job Class _____ Controlling Factor _____

Soils _____ Hydro. Gr._____

Land Use _____ Trtmt. _____ Condition _____

DA _____ ac. W/S Slope _____ % Slope Factor _____

CN _____ Rainfall _____ in. _____ yr. & _____ in. _____ yr.

Qps = _____ in. q_i = _____ (Qps) x _____ cfs/in. = _____ cfs

Vr = [_____ (in) x _____ (DA)] / 12 = _____ AF

Vs = (_____ cf/ft x _____ ft.) / 43560 = _____ AF

Vs/Vr = _____ (Vs) / _____ (Vr) = _____ q_o/q_i = _____

Qpipe = _____ (q_o/q_i) x _____ (q_i) = _____ cfs

Pipe Size = _____ in. (sm./corr.) barrel; _____ in. riser

Emb. SS = _____ : 1 TW = _____ ft.

Qes = _____ in. x _____ cfs/in. = _____ cfs

BW = _____ ft. C. Sect. = _____ ft. Stage = _____ ft.

S. Range = _____ to _____ F'Board = _____ ft.

El Riser _____ El Emer S/W _____ El Top of Dam _____

Settlement _____ % Pond Use _____

Drain _____ ft. of _____ in. _____ Pipe

Riser _____ ft. of _____ in. _____ Pipe

Quantity of Fill _____ CY

Vegetation _____

Design By _____ Checked By _____